

**MODULE 10**

Question 1

2.5 / 2.5 pts

**Multiple Choice:**

Each of the following are true of gout except:

Correct!

Uric acid dissolves readily in synovial fluid

Typically occurs at the first metatarsophalangeal joint

Anyone can get gout

Uric acid is a byproduct of purine metabolism

Question 2

2.5 / 2.5 pts

**Multiple Choice:**

Which of the following would a patient likely report if you suspect they have OA?

Stiffness in the morning that lasts longer than 30 minutes

Pain that is alleviated with activity

Correct!



A “grinding feel” with movement



Pain in their MCP joint

Question 3

2.5 / 2.5 pts

Which of the following are true regarding synovial joints? **(mark all that apply)**



Ball and socket joints are characterized by limited range of motion

Correct!



Condylloid joints allow gliding of irregular joint surfaces

Correct!



They are freely moving



The synovium lines articulating surfaces of the joint

Correct!



The synovium surrounds the joint margins

Question 4

2.5 / 2.5 pts

**Multiple Choice:**

Cancellous bone receives its blood supply by what means?



Arteries branching from the medullary cavity



Arteries branching inward from the periosteal arteries

Correct!



Diffusion through the endosteal surface of the bone and the canaliculi

Question 5

0 / 2.5 pts

**Multiple Choice:**

Which of the following drugs is most commonly prescribed to treat osteoporosis?



Raloxifene

Correct Answer



Alendronate

You Answered



Calcitonin

Question 6

2.5 / 2.5 pts

**Multiple Choice:**

Which of the following cells when stimulated by bone morphogenetic proteins (BMPs) differentiate to contribute to normal bone growth?



Osteocytes



Osteoclasts



Osteoblasts

Correct!



Osteoprogenitor cells

Question 7

2.5 / 2.5 pts

**Multiple Choice:**

Which of the following are true of articular cartilage?



Proteoglycans of the extracellular matrix resist compression forces



Polypeptide chains give form and tensile strength



Interstitial osmotic pressure and available fluid contribute to joint lubrication

Correct!



a. b. and c. are all true



a. b. and c. are all false

Question 8

2.5 / 2.5 pts

**Multiple Choice:**

A patient has low serum calcium levels. Which of the following is true given this scenario?



The thyroid gland will secrete PTH to return serum calcium levels to normal



The thyroid gland will secrete calcitonin to return serum calcium levels to normal

Correct!